

Attorney's Docket No.

PATENT

IN THE UNITED STATES PATENT A

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231





NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

JOHN Y. Chen

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (title):

TEAR RESISTANT ELASTIC GRYSTAL GELS SUITABLE FOR INFLATABLE RESTRAINT CUSHIONS AND OTHER USES

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date. in an envelope to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

(type or print name of

Signature of person mailing paper

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

(Application Transmittal [4-1]-page 1 of 9)



1. Type of Application

informal

This new application is for a(n)

(check one applicable item below)

	\cdot
X	Original (nonprovisional)
Ġ	Design
	☐ Plant
WARNING:	Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNING:	Do not use this transmittal for the filing of a provisional application.
ŤR.	ne of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION ANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	Divisional.
	Continuation.
X	Continuation-in-part (C-I-P).
	t of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)
NOTE: If the case of a	the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent se, or where the parent case is an International Application which designated the U.S., or benefit a prior provisional application is claimed, then check the following item and complete and attach DED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
WARNING:	If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.
WARNING:	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. Papers	Enclosed That Are Required for Filing Date under 37 CFR 1.53(b)
	ar) or 37 CFR 1.153 (Design) Application
·	ges of specification
	ges of claims
	ges of Abstract
	eets of drawing
·	formal



WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page." 37 C.F.R. 1.84(c)).

(complete the following, if applicable)

		The enclosed drawing(s) are photograph(s), and there is also attached a PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).		
1.	Additi	nal papers enclosed		
		Preliminary Amendment		
		nformation Disclosure Statement (37 CFR 1.98)		
		Form PTO-1449		
		Citations		
		Declaration of Biological Deposit		
		Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.		
		Authorization of Attorney(s) to Accept and Follow Instructions from Representative		
		Special Comments		
		Other		
5.	Decla	ration or oath		
	X	Enclosed		
	Executed by			
		(check all applicable boxes)		
		Zi inventor(s).		
		legal representative of inventor(s). 37 CFR 1.42 or 1.43.		
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.		
		This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.		
		Not Enclosed.		
1	WARNIN	Where the filing is a completion in the U.S. of an International Application, but where a declaration is not available, or where the completion of the U.S. application contains subject matter in addition		

to the International Application, the application may be treated as a continuation or continuation-inpart, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE

BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

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Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all the above named inventor(s).
(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).
NOTE: It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
Showing that the filing is authorized. (not required unless called into question. 37 CFR 1.41(d))
6. Inventorship Statement
WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The inventorship for all the claims in this application are:
The same.
or
 Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
is submitted.
☐ will be submitted.
7. Language
NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).
NOTE: A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).
∑Z` English
∩ Non-English
☐ The attached translation is a verified translation. 37 CFR 1.52(d).
8. Assignment
An assignment of the invention toApplied Elastomerics Truc
☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
√ will follow.
NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
WARNING: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

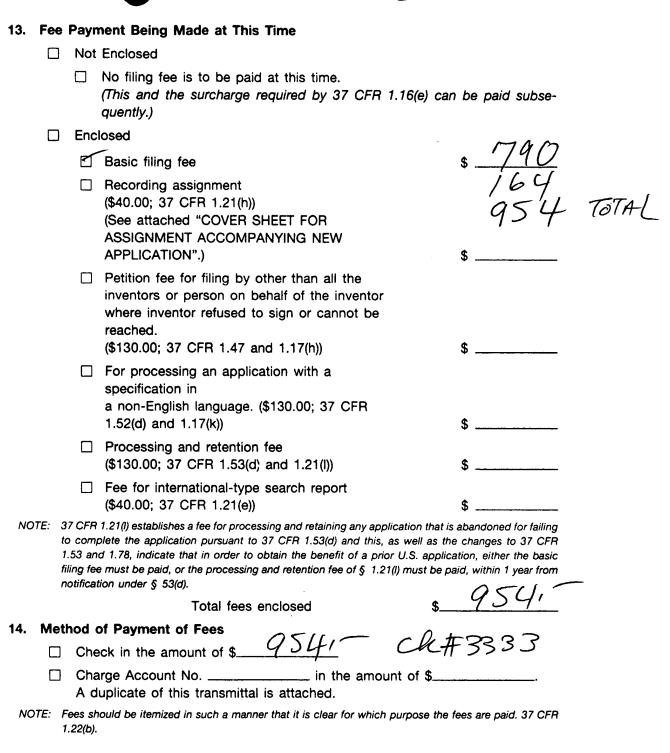
(Application Transmittal [4-1]—page 4 of 9)

9. (Certif	ied	Co	DV
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Certified copy(ies) of application(s)

country	appin. no.		filed
country	appln. no.		filed
country	appin. no.		filed
from which priority is claimed			
is (are) attached.			
☐ will follow.			
NOTE: The foreign application for declaration. 37 CFR 1.55(a	ming the basis for the clair a) and 1.63.	n for priority must be	referred to in the oath or
U.S. application or Internal 120 is itself entitled to price	n priority for which the app tional Application from which prity from a prior foreign ap CATION TRANSMITTAL WH	h this application claim plication, then complet	is benefit under 35 U.S.C. te item 18 on the ADDED
10. Fee Calculation (37 CF	R 1.16)		
A. Regular application	1		
	CLAIMS AS FIL	ED	
Number filed	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$750.00
Total Claims (37 CFR 1.16(c)) 6 -	20 =	× \$ 22.00	
Independent Claims (37 CFR 1.16(b)) 5 -	3 = 2	× \$ 78.00	164
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+ \$250.00	
☐ Amendment cance	elling extra claims enc	losed.	
Amendment deleti	ng multiple-dependen	cies enclosed.	
☐ Fee for extra clain	ns is not being paid a	t this time.	
NOTE: If the fees for extra claims a	nre not paid on filing they mu the time period set for resp	st be paid or the claims	_
	Filing Fee Calculation	1	\$ 127

В.		Design application (\$310.00—37 CFR 1.16(f))	
		Filing Fee Calculation	\$
C.		Plant application (\$510.00—37 CFR 1.16(g)) Filing fee calculation	\$
11. S	mal	Il Entity Statement(s)	V
		Verified Statement(s) that this is a filing by a small entity under 1.27 is (are) attached.	nder 37 CFR 1.9 and
WARN	NING	"Status as a small entity in one application or patent does not affect any including applications or patents which are directly or indirectly deper or patent in which the status has been established. A nonprovisional a under 35 U.S.C. 119(e), 120, 121 or 365(c) of a prior application may r filed in the prior application if the nonprovisional application includes statement in the prior application or includes a copy of the verified application if status as a small entity is still proper and desired." 37 C	ndent upon the application application claiming benefit ely on a verified statement is a reference to a verified statement filed in the prior
		(complete the following, if applicable)	
(Status as a small entity was claimed in prior application	
		is being claimed for this application under:	_, from which benefit
		35 U.S.C. ☐ 119(e), ☐ 120, ☐ 121, ☐ 365(c),	
		and which status as a small entity is still proper and de	esired.
		☐ A copy of the verified statement in the prior applica	ation is included.
Filing F	ee	0-1-11: (500)	\$
NOTE:	wit	ny excess of the full fee paid will be refunded if a verified statement and thin 2 months of the date of timely payment of a full fee. The two-month der § 1.136. 37 CFR 1.28(a).	a refund request are filed h period is not extendable
12. R	equ	est for International-Type Search (37 CFR 1.104(d))	
		(complete, if applicable)	
[Please prepare an international-type search report for this a when national examination on the merits takes place.	pplication at the time



15. Au	thorization to Cha	rge Addition	al Fees
WARNII	VG : If no fees are to b	e paid on filing,	the following items should <u>not</u> be completed.
WARNII	VG: Accurately count of if extra claim char		multiple dependent claims, to avoid unexpected high charges, ed.
		-	authorized to charge the following additional fees entire pendency of this application to Account No.
	☐ 37 CFR 1.1	6(a), (f) or (g)	(filing fees)
			(d) (presentation of extra claims)
NOTE:	must only be paid or the set for response by the	ese claims canc PTO in any not	Itiple dependent claims not paid on filing or on later presentation relied by amendment prior to the expiration of the time period rice of fee deficiency (37 CFR 1.16(d)), it might be best not to laim fees, except possibly when dealing with amendments after
			ge for filing the basic filing fee and/or declaration filing date of the application)
	☐ 37 CFR 1.1	7 (application	processing fees)
WARNII	should be made or	nly with the know is to no avail <u>unle</u> s	deal with extensions of time under § 1.136(a), this authorization ledge that: "Submission of the appropriate extension fee under ss a request or petition for extension is filed." (Emphasis added). O.G. 27).
	37 CFR 1.18 to 37 CFR		or before mailing of Notice of Allowance, pursuant
	Where an authorization of a Notice of Allowanc of mailing the notice or	e, the issue fee w	sue fee to a deposit account has been filed before the mailing will be automatically charged to the deposit account at the time CFR 1.311(b).
	be filed in the applicatio of 37 CFR 1.28(b): (a) I	n prior to pa notification of cha	any change in loss of entitlement to small entity status must ying, or at the time of paying, issue fee." From the wording ange of status must be made even if the fee is paid as "other ion is required if the change is to another small entity.
16. Ins	tructions as to O	erpayment	
	Credit Account	No	—//// <i>(</i> /
X	Refund		Galen J. Chan
Reg. No.	29,782		SIGNATURE OF ATTORNEY
	21/10-		APPLIED ELASTOMERICS, INC
Tel. No.	(650) 355.	-0177	(type or print hand of attorning Blvd., Pacifica, Calif. 94044
1336	D ELASTOME Oddstad Blvd., scifica, Calif. 9		P.O. Address
A *	TELLES WALLS. 7	70 11	(Application Transmittal [4-1]—page 8 of 9)

ليا	incor	poration by reference of added pages
		(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added
	State	ment Where No Further Pages Added
		(if no further pages form a part of this Transmittal, then end this Transmitta with this page and check the following item.)
		This transmittal ends with this page.

	25	
Attorney's Docket No	$\supset N$	DATEM
Attorney's Docket No		PATENT

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: "In order for an application to claim the benefit of a prior filed copending national application, the prior application must name as an inventor at least one inventor named in the later filed application and disclose the named inventor's invention claimed in at least one claim of the later filed application in the manner provided by the first paragraph of 35 U.S.C. 112." 37 CFR 1.78(a).

NOTE: "In addition the prior application must be (1) complete as set forth in § 1.51, or (2) entitled to a filing date as set forth in § 1.53(b) and include the basic filing fee set forth in § 1.16; or (3) entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(d)." 37 CFR 1.78(a).

17. Relate Back

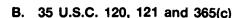
WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(complete the following, if applicable)

	Amend the specification by inserting, before t	he first line, the following sentence:
A. 35	U.S.C. 119(e)	
NOTE:	"Any nonprovisional application claiming the benefit of one applications must contain or be amended to contain in the the title a reference to each such prior provisional application and including the provisional application number (consisting § 1.78(a)(4).	first sentence of the specification following on, identifying it as a provisional application,
	This application claims the benefit of U.S.	Provisional Application(s) No(s).:
APPLIC	CATION NO(S).:	FILING DATE
	_ /	
	_ /	
	. /	

Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed

[4-1.1]—page 1 of 5)



or international application number and international filing date and indicating the relationship of the applications. Cross-references to other related applications may be made when appropriate. (See § 1.14(b))." 37 C.F.R. § 1.78(2). "This application is a continuation continuation-in-part see under related Applications divisional of copending application(s) _____ filed on _____ application number 0 /_ International Application ___ and which designated the U.S." NOTE: The proper reference to a prior filed PCT application that entered the U.S. national phase is the U.S. serial number and the filing date of the PCT application that designated the U.S. NOTE: (1) Where the application being transmitted adds subject matter to the International Application, then the filing can be as a continuation-in-part or (2) if it is desired to do so for other reasons then the filing can be as a continuation. "The nonprovisional application designated above, namely application _____, filed _____, claims the benefit of U.S. Provisional Application(s) No(s).: APPLICATION NO(S).: See Related Applications NOTE: The deadline for entering the national phase in the U.S. for an international application was clarified

NOTE: "Any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number)

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, provided that a copy of the international application has been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively, the international application becomes abandoned as to the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (i) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:

18. Relate Back—35 U.S.C. 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

	country	appln. no.	filed on
The cert	ified copy(ies) has (hav	/e)	
	been filed on		/, which was
	is (are) attached.		
WARNING	the International Bureau m application in the contin application communicate a U.S. serial number unless stage is not entered. Thei prosecution of a continuir documents from the folder to request transfer, retrieve enter and make a record of the priority documents in	ay not be relied on without any need uing application. This is so becard by the International Bureau is possible national stage is entered. Such refore, such certified copies may read application. An alternative would and transfer them to the continuing at the folders, make suitable record of such copies in the Continuing Ap	the been communicated to the PTO by the deto file a certified copy of the priority ause the certified copy of the priority alaced in a folder and is not assigned in folders are disposed of if the national not be available if needed later in the dibe to physically remove the prioritying application. The resources required motations, transfer the certified copies, uplication are substantial. Accordingly, insight that have not entered the national 10.0.G. 32 to 46).
19. Mai	ntenance of Copen	dency of Prior Applica	tion
re.		pers constituting the filing of the	or application extending the term for a continuation application. Notice of
A. \Box	Extension of time in p	prior application	
(This	•	ted and the papers filed in set in the prior application	•
	A petition, fee and resuntil	ponse extends the term in	the pending prior application
	☐ A copy of the pe	tition filed in prior applicati	on is attached.
B. 🗆	Conditional Petition for	or Extension of Time in Price	or Application
	(complete this	item, if previous item not	applicable)
	A conditional petition application.	for extension of time is be	eing filed in the pending prior
	☐ A copy of the co	nditional petition filed in the	e prior application is attached.

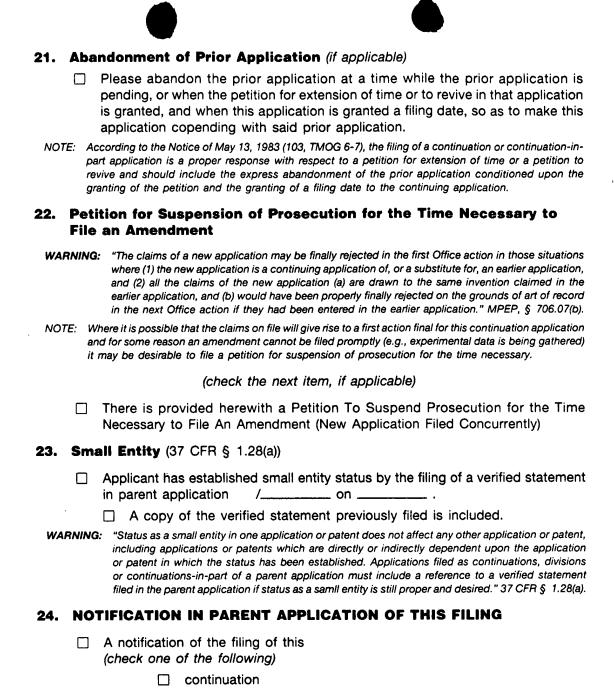
20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

NOTE: "If the continuation, continuation-in-part, or divisional application is filed by less than all the inventors named in the prior application a statement **must** accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application." 37 CFR 1.62(a) [emphasis added]. (dealing with the file wrapper continuation situation).

NOTE: "In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by § 1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application. In a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application." 37 CFR 1.60(c) (dealing with the continuation situation).

(complete applicable item (a), (b) and/or (c) below)

(a)	app	s application discloses and claims only subject matter disclosed in the prior disclose particulars are set out above and the inventor(s) in this disclosed in the prior disclosed in th
		the same.
		less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
		(type name(s) of inventor(s) to be deleted)
(b)	a n	s application discloses and claims additional disclosure by amendment and ew declaration or oath is being filed. With respect to the prior application, inventor(s) in this application are
		the same.
		the following additional inventor(s) have been added:
		(type name(s) of inventor(s) to be added)
(c)	The	inventorship for all the claims in this application are
		the same.
		not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
		is submitted.
		☐ will be submitted.



is being filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.

continuation-in-part

☐ divisional

Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed

[4-1.1]—page 5 of 5)



See Related Applications

Added page _____